STUDENT COPY · SET A

Class 9 · Reasoning Olympiad

Total questions	Total marks	Time	Negative marking
50	60	60 minutes	None

Name: _____ Class/Section: _____ Roll no: _____

Each question has four options, of which only one is correct. Mark your answer on the answer sheet. The Achievers Section carries higher marks per question. Your teacher has the answers.
This is original practice material written to the Level 1 pattern. It is not a past paper and is not affiliated with SOF or any official olympiad body.

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Logical Reasoning

45 questions · 1 mark each · 45 marks

Q1. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is CUP written?

(A) 3 - 21 - 16 (B) 24 - 6 - 11 (C) 16 - 21 - 3 (D) 4 - 22 - 17

Q2. If the 12th of a month is a Sunday, what day of the week is the 23rd of the same month?

(A) Friday (B) Saturday (C) Thursday (D) Wednesday

Q3. In a queue, Nita is 4th from the front and 11th from the back. How many people are in the queue altogether?

(A) 15 (B) 14 (C) 13 (D) 16

Q4. Which one does NOT belong with the others?

(A) Pentagon (B) Square (C) Circle (D) Triangle

Q5. In a row of 40 children, Ravi is 28th from the left end. What is Ravi's position from the right end?

(A) 14th (B) 13th (C) 12th (D) 15th

Q6. Nila walks 9 m north, then 10 m east, then 6 m south. Where is Nila now, relative to the starting point?

(A) 3 m north and 10 m east (B) 3 m north and 11 m east

(C) 9 m north and 10 m east (D) 4 m north and 10 m east

Q7. Read the statements and choose the conclusion that MUST be true.
Every student in the class has a pencil. Rahul is a student in the class.

(A) Only Rahul has a pencil. (B) Rahul has no pencil.

(C) Some students have no pencil. (D) Rahul has a pencil.

Q8. In a certain code JAR is written as MDU. How is CAT written in that code?

(A) WDF (B) ZXQ (C) FDW (D) GEX

Q9. Meera walks 5 m towards north, turns right and walks 6 m, then turns right again and walks 5 m. How far is Meera from the starting point, and in which direction?

(A) 6 m, East (B) 6 m, West (C) 5 m, East (D) 11 m, North

Q10. Which of these figures has exactly 4 lines of symmetry?



(A) (B) (C) (D)

Q11. A father is 25 years older than his son. The son is 14 years old now. How old will the father be after 2 years?

(A) 39 years (B) 41 years (C) 42 years (D) 43 years

Q12. Find the next number in the pattern: 3, 7, 15, 31, ___

(A) 64 (B) 61 (C) 63 (D) 62

Q13. 6 : 36 :: 10 : ___

(A) 81 (B) 100 (C) 121 (D) 20

Q14. Pointing to a boy in a photograph, Meera said, “This boy is not me, but he is the son of my paternal grandfather’s only son.” How is the boy related to Meera?

(A) Uncle (B) Cousin (C) Nephew (D) Brother

Q15. In a class, 19 students play cricket, 14 play football and 5 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 29 (B) 33 (C) 23 (D) 28

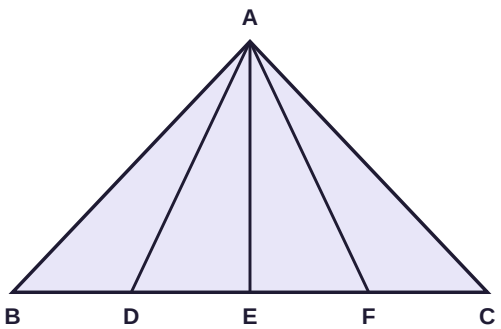
Q16. In the first row the numbers are 5, 5 and 20. In the second row they are 7, 5 and 24. In the third row they are 2, 2 and ___ . The same rule applies to every row.

(A) 10 (B) 7 (C) 9 (D) 8

Q17. Which word would come FIRST in a dictionary?

(A) marble (B) monkey (C) maple (D) mango

Q18. How many triangles are there in the given figure?



(A) 11 (B) 9 (C) 12 (D) 10

Q19. Which letter comes next? C, G, K, O, ___

(A) S (B) W (C) T (D) R

Q20. Three of the following four are alike and form a group. Which one does NOT belong?

(A) Parrot (B) Snake (C) Sparrow (D) Pigeon

Q21. Five friends A, B, C, D and E sit in a row of five seats. A sits at the extreme left end, D sits at the extreme right end, C sits exactly in the middle and B sits between A and C. Who sits in the fourth seat from the left?

(A) C (B) D (C) B (D) E

Q22. All but one of these numbers are multiples of the same number. Find the one that is not: 36, 66, 84, 96, 120

(A) 84 (B) 36 (C) 66 (D) 120

Q23. Which letter comes next? G, I, L, P, ___

(A) U (B) V (C) S (D) T

Q24. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is CAT written?

(A) 24 - 26 - 7 (B) 4 - 2 - 21 (C) 3 - 1 - 20 (D) 20 - 1 - 3

Q25. If the 12th of a month is a Wednesday, what day of the week is the 25th of the same month?

(A) Monday (B) Tuesday (C) Wednesday (D) Thursday

Q26. In a queue, Deep is 6th from the front and 8th from the back. How many people are in the queue altogether?

(A) 13 (B) 12 (C) 14 (D) 15

Q27. In a row of 32 children, Imran is 16th from the left end. What is Imran's position from the right end?

(A) 16th (B) 18th (C) 17th (D) 19th

Q28. Arun walks 8 m north, then 3 m east, then 7 m south. Where is Arun now, relative to the starting point?

(A) 1 m north and 3 m east (B) 1 m north and 4 m east

(C) 8 m north and 3 m east (D) 2 m north and 3 m east

Q29. In a certain code BUS is written as EXV. How is BAT written in that code?

(A) WDE (B) EDW (C) YXQ (D) FEX

Q30. Meera walks 9 m towards north, turns right and walks 8 m, then turns right again and walks 9 m. How far is Meera from the starting point, and in which direction?

(A) 8 m, East (B) 9 m, East (C) 8 m, West (D) 17 m, North

Q31. Which of these figures has exactly 6 lines of symmetry?



(A) (B) (C) (D)

Q32. A father is 31 years older than his son. The son is 5 years old now. How old will the father be after 6 years?

(A) 42 years (B) 48 years (C) 36 years (D) 43 years

Q33. 9 : 81 :: 7 : ___

(A) 49 (B) 64 (C) 14 (D) 36

Q34. Pointing to a boy in a photograph, Rahul said, “This boy is not me, but he is the son of my paternal grandfather’s only son.” How is the boy related to Rahul?

(A) Brother (B) Cousin (C) Nephew (D) Uncle

Q35. In a class, 19 students play cricket, 12 play football and 8 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 15 (B) 31 (C) 24 (D) 23

Q36. In the first row the numbers are 2, 8 and 14. In the second row they are 6, 8 and 46. In the third row they are 6, 5 and ___ . The same rule applies to every row.

(A) 28 (B) 27 (C) 29 (D) 30

Q37. Which letter comes next? K, N, Q, T, ___

(A) Z (B) X (C) W (D) V

Q38. All but one of these numbers are multiples of the same number. Find the one that is not: 12, 24, 36, 40, 46

(A) 46 (B) 40 (C) 12 (D) 24

Q39. Which letter comes next? A, C, F, J, ___

(A) P (B) O (C) N (D) M

Q40. If the 18th of a month is a Tuesday, what day of the week is the 31st of the same month?

(A) Sunday (B) Tuesday (C) Wednesday (D) Monday

Q41. In a queue, Nita is 10th from the front and 12th from the back. How many people are in the queue altogether?

(A) 23 (B) 22 (C) 21 (D) 20

Q42. In a row of 25 children, Arjun is 12th from the left end. What is Arjun’s position from the right end?

(A) 16th (B) 15th (C) 13th (D) 14th

Q43. Read the statements and choose the conclusion that MUST be true.
All metals conduct electricity. Copper is a metal.

(A) Copper conducts electricity. (B) Only copper is a metal.

(C) All conductors are copper. (D) Copper does not conduct electricity.

Q44. In a certain code JAR is written as MDU. How is CUP written in that code?

(A) ZRM (B) GYT (C) SXF (D) FXS

Q45. Riya walks 3 m towards north, turns right and walks 8 m, then turns right again and walks 3 m. How far is Riya from the starting point, and in which direction?

(A) 8 m, West (B) 8 m, East (C) 11 m, North (D) 3 m, East

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. Find the next number: 2, 4, 8, 14, 22, ___

(A) 30 (B) 34 (C) 33 (D) 32

Q47. If LAMP is coded as QFRU, how is GATE coded?

(A) BVOZ (B) JYFL (C) LFYJ (D) QKDO

Q48. If LAMP is coded as PEQT, how is WIND coded?

(A) AMRH (B) HRMA (C) SEJZ (D) EQVL

Q49. Find the next number: 5, 7, 11, 17, 25, ___

(A) 37 (B) 36 (C) 35 (D) 33

Q50. If FISH is coded as HKUJ, how is GATE coded?

(A) EYRC (B) KEXI (C) GVCI (D) ICVG

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